



# Renewable Energy Market in Japan



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Japan Renewable Energy Corporation(JRE)

Mission & Purpose

**Changing the World with Renewable Energy**

Founded in 2012

**60+ power plants, 900MW Capacity**  
in operation / under construction

**919GWh** Annual Power Generation (CY 2022)  
- Equivalent to the annual power consumption  
of 216,000 households\*

Joined ENEOS Group in 2022



\*Calculated based on the average annual  
electricity consumption of 4,258kWh



Onshore wind



Solar PV

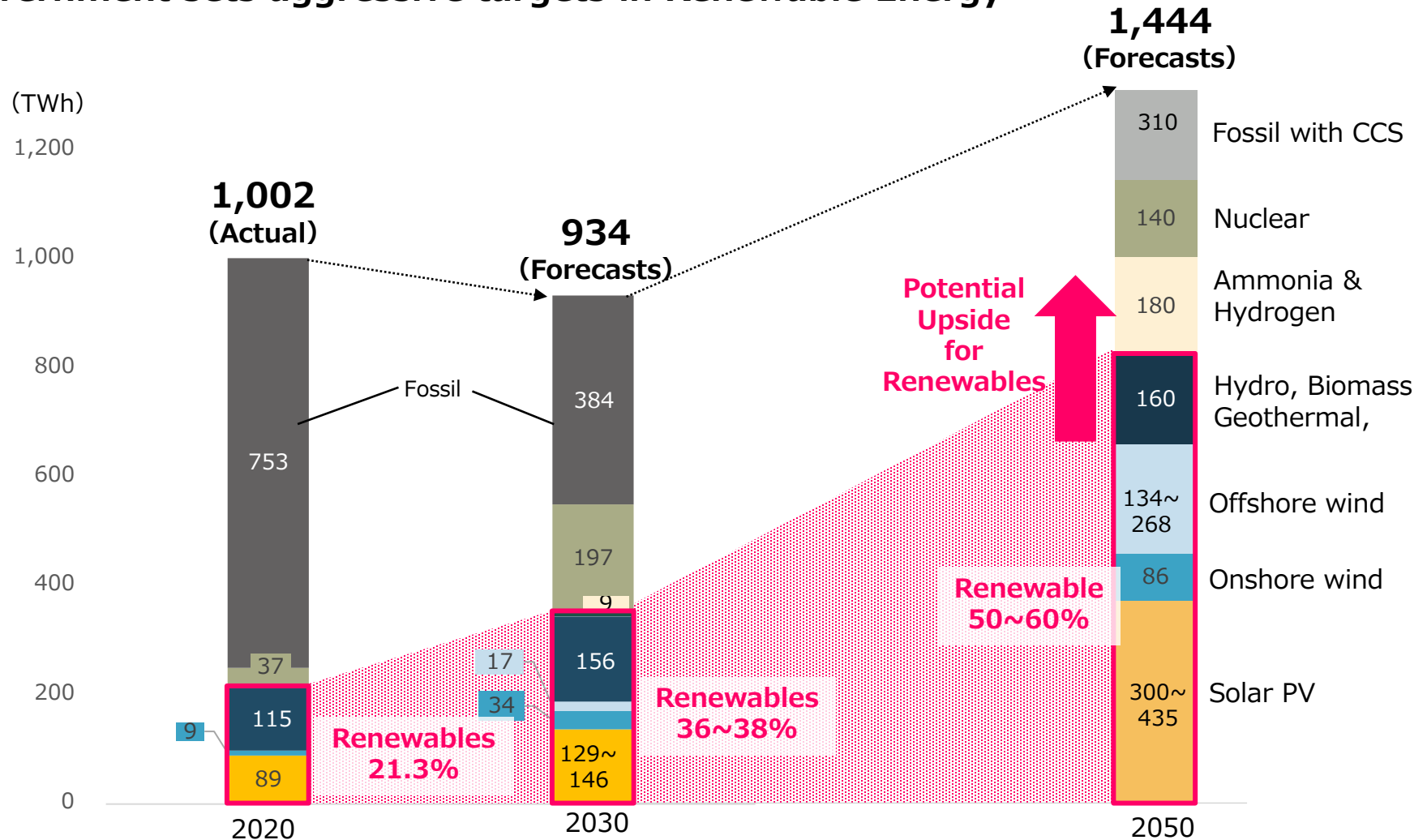


Biomass

# Japan Energy Market

## 1. Power generation mix

### Government sets aggressive targets in Renewable Energy

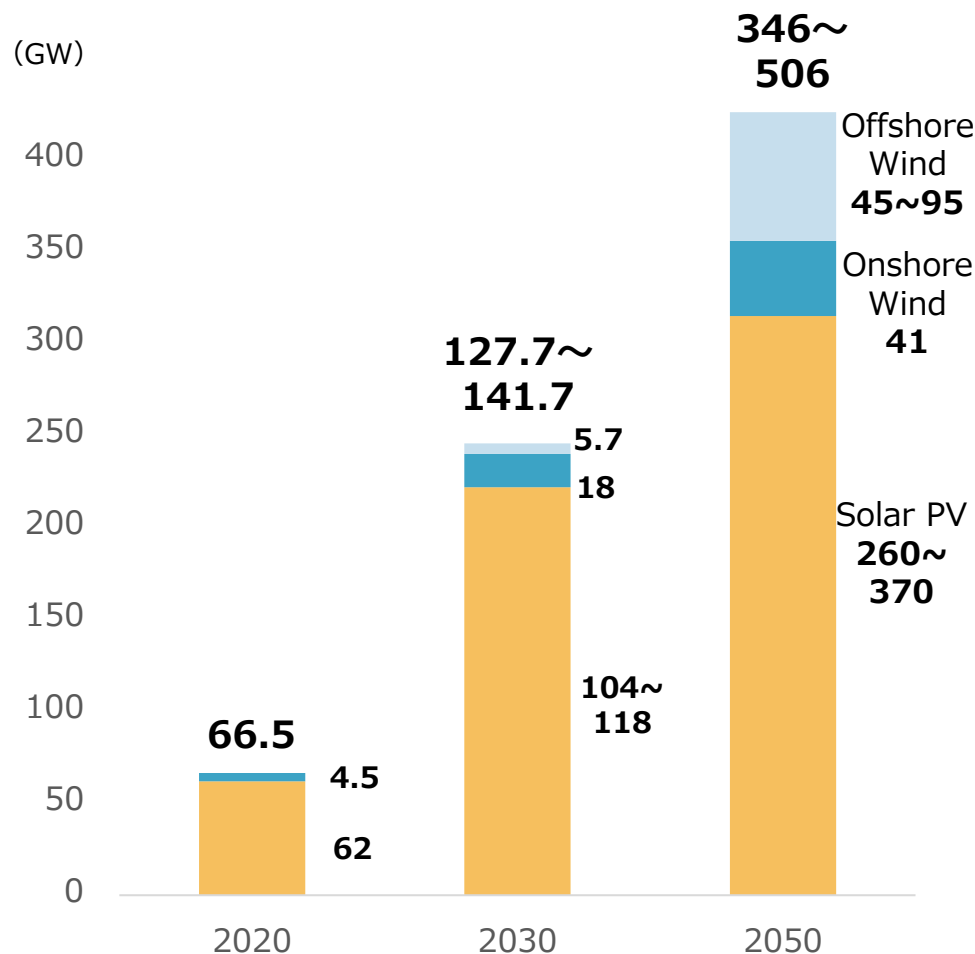


Source: Agency for Natural Resources and Energy

# Japan Energy Market

## 2. Generation Capacity of Solar PV and Onshore Wind

**Government targets imply vast increase in Solar PV and Wind power capacity  
(x2 in 2030, x5-7 in 2050)**



**Towards 2030**

- ▶ Solar PV leads the market
- ▶ Steady growth in Onshore wind
- ▶ Offshore wind stays under development

**Towards 2050**

- ▶ Solar PV continues to grow
- ▶ Offshore wind shows drastic growth
- ▶ Steady growth in Onshore wind

Source: Agency for Natural Resources and Energy

## Business Challenges

**Continuous cost reduction  
under “Grid Parity”**

**Business creation with  
FIP (Feed-in Premium) scheme**

## Expected policy enhancement

**Deregulation for  
efficient use of land**

Unused  
farmland

National  
Forests

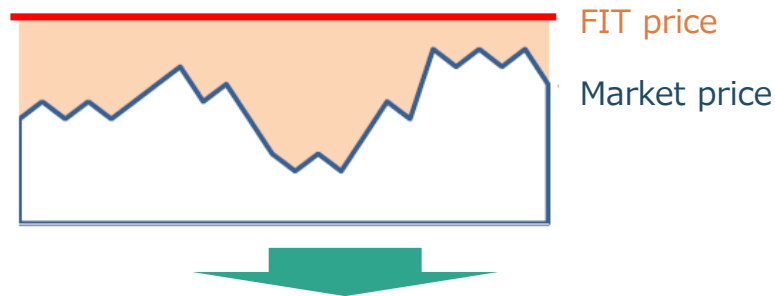
**Enhancement of  
grid connection**



## Market changes; from FIT to FIP

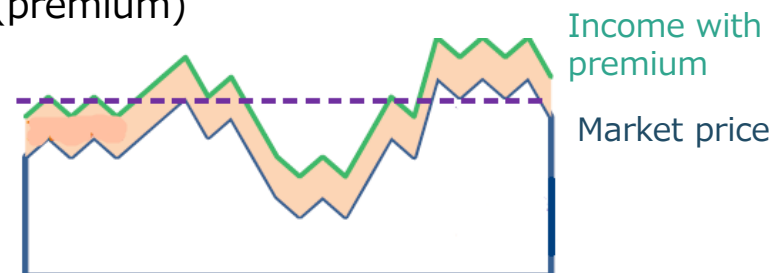
### ◆ FIT (Feed-in Tariff)

- Power to be sold to utility
- Secured fixed price for ~20 years



### ◆ FIP (Feed-in Premium)

- Power to be sold through the market or PPA
- Income volatiles but is subsidized (premium)



## Business Development at JRE

### ◆ Solar PV + Power Storage

A Plant that stores power in the daytime, sells in the evening when market price goes up



### ◆ Solar PV + Datacenter

Additional revenue flow from datacenter usage



# Thank you



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